

File

State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES
DIVISION OF SAFETY OF DAMS

INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of dam Oroville Dam Dam No. 1-48 County Butte
Type of dam Earthfill Type of Spillway Gated Concrete Weir and Chute
Water is 29.33 feet below spillway crest and 137.73 feet below dam crest.

*Elevation 784.27 feet

Weather Conditions Sunny, hot, calm

Contacts made Lee August, Oroville Field Office; Dan Garcia, student; Michael Urbano, O&M; Dave Panec, O&M

Reason for inspection Periodic Evaluation (2nd inspection)

Important Observations, Recommendations or Actions Taken

None

Conclusions

From the known information and the visual inspection, the dam, reservoir, and the appurtenances are judged satisfactory for continued use, pending completion of radial gate repairs.

Item No.*	Item Name and Observation and Comment
A1-A4	<p><u>Dam</u> - The visible portions of the embankment slopes, crest, and abutments were in good condition. No indications of slope instability, excessive vegetation or rodent activity were observed. The riprap on the upstream slope was in good condition. Minor beaching was observed in some areas. Both the left and right galleries and Terminal S were inspected. No unexpected conditions were observed. The floor drains in the left side of core block access gallery were blocked but do not appear to present a problem.</p> <p><u>Bidwell Bar Canyon Saddle Dam, Parish Camp Saddle Dam</u> - The dikes were inspected last January.</p>
6, 8, 10	<p><u>Spillway</u> - Radial gate modifications were ongoing. Gate 5 was in the partially raised position for construction access. A chain link gate has been installed at the upstream end of bay 5 to limit unauthorized access. Bird netting covers all bay openings both upstream and downstream. The concrete comprising the gate superstructure was not closely inspected due to the ongoing gate repairs but appeared to be in satisfactory condition, with the exception of the ongoing spalling of the bridge abutments.</p> <p>The spillway chute was traversed to the end sill. No recent movement of the walls or chute was evident. Grout patches in the chute floor are beginning to deteriorate in several areas. The left dentate repair is in good condition, however, the patch in the left-center dentate appears to be deteriorating. The emergency spillway was in satisfactory condition.</p>

Typed by wmp
Date 7/3/01
cc for Book/Owner

Use Field Sheet Standard
Numbers and Items
(See Reverse Side)

Inspected by W. Pennington 7/3/01
Date of Inspection 6/13/01
Date of Report 7/3/01
Photos taken? Yes X No
Sheet 1 of 2 Sheets

INSPECTION OF DAM AND RESERVOIR IN CERTIFIED STATUS

Name of Dam Oroville Dam No 1-48

Date of Inspection 6/13/01

Observations and Comments (Continued)

Item No.*	Item Name and Observation and Comment																									
14,16	<u>Outlet</u> - Turbines 5 and 6 were running. The river outlets were closed. The sloping intake was not visited, nor was the Palermo tunnel. The guard valves on the river outlet do not appear to have changed since the last inspection. The fixed cone valves were not inspected.																									
17	<u>Seepage</u> - Seepage started at about elevation 744 in the right gallery, and about elevation 798 in the left gallery. The drain flow appeared to increase normally as we progressed toward the weirs. The drainage in the emergency exit tunnel appeared to be about the same as usual. <u>Weir Readings</u> <table><tr><td>Right bypass</td><td>.32 inches</td><td>13 gpm</td></tr><tr><td>Right gallery</td><td>.48 inches</td><td>37.7 gpm</td></tr><tr><td>Left gallery</td><td>.42 inches est.</td><td>25.7 gpm</td></tr></table> <u>AB Joint Readings</u> <table><tr><td>P2</td><td>78 psi</td></tr><tr><td>P3</td><td>76 psi</td></tr><tr><td>P4</td><td>62 psi</td></tr><tr><td>P5</td><td>162 psi</td></tr><tr><td>P6</td><td>62 psi</td></tr><tr><td>P7</td><td>170 psi</td></tr><tr><td>AB1</td><td>180 psi</td></tr><tr><td>AB2</td><td>180 psi</td></tr></table>	Right bypass	.32 inches	13 gpm	Right gallery	.48 inches	37.7 gpm	Left gallery	.42 inches est.	25.7 gpm	P2	78 psi	P3	76 psi	P4	62 psi	P5	162 psi	P6	62 psi	P7	170 psi	AB1	180 psi	AB2	180 psi
Right bypass	.32 inches	13 gpm																								
Right gallery	.48 inches	37.7 gpm																								
Left gallery	.42 inches est.	25.7 gpm																								
P2	78 psi																									
P3	76 psi																									
P4	62 psi																									
P5	162 psi																									
P6	62 psi																									
P7	170 psi																									
AB1	180 psi																									
AB2	180 psi																									
18	<u>Instrumentation</u> - Terminal S has been cleaned and the piezometer tubes cut at the crown of the galley. Leakage from the tube bundle is now collected in a pan on the floor and routed via a 2-inch PVC pipe to the floor drain. The flow and contents of the pan are monitored weekly. A plug has been devised to block off the tubing race in the event excessive seepage or signs of piping are observed. The plug is stored at the terminal.																									

Author/Typist WMP/wmp Sheet 2 of 2 Sheets